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Agricultural **L**ibraries **I**nformation **N**otes

NAI
National
Agricultural
Library

U.S. Department
of Agriculture
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(Above) A grain dust explosion in the U.S. Bureau of Mines test facility at Fairchance, WV, staged for the USDA Grain Storage, Handling and Processing Safety Subcommittee. See story on page 2. Photo courtesy of the Subcommittee.

(Below) Andean farm workers cultivate crops being investigated by USDA for both potential future cultivation in the U.S. and for genetic material to improve crops already cultivated in the U. S. See photo story on page 10. Photo courtesy of Dr. Calvin Sperling, ARS.



GRAIN DUST EXPLOSIONS

On October 18th, the USDA Grain Storage, Handling and Processing Safety Coordinating Subcommittee made a field trip to the US Bureau of Mines test facility at Fairchance, West Virginia. The Subcommittee was joined by one person from the National Grain and Feed Association. We [the Subcommittee, *et al.*] toured the facility, including a mine shaft which extends 1/3 of a mile into the mountain where one of three test explosions was detonated. In the mine a coal dust explosion was triggered by a small propane explosion. A shock wave developed, and a flame front started down the shaft, but it was quenched by several plastic tubs of water sitting on racks. The water was dispersed into the air by the advancing shock wave and extinguished the flames: ridiculously simple, but quite effective. We were back out of the mine by then and watched on a TV monitor. We could also hear the rumble and feel the ground shake. The possible application of this and other technology to stop grain dust explosions was discussed.

In the above ground part of the test facility, a small coal dust explosion was set off in an old quarry so that we could see the force generated. Minutes later, 60 pounds of grain dust were detonated and produced a fireball about 50 feet in diameter. The Bureau of Mines personnel, who are among the world's most knowledgeable about dust explosions, are eager to work with USDA and other interested parties in reducing agricultural dust explosions.

In addition to being represented on the grain dust subcommittee, NAL has been collecting information on grain dust and making it available to those interested in the subject. NAL has issued a set of microfiche containing 147 publications related to grain dust, ranging in length from short articles to long research reports. (Available from NTIS, the National Technical Information Service, Springfield, VA 22161. Document number PB86-212255.) NAL is planning to issue additional microfiche sets in the future.

-- Sheldon Cheney

DO YOU USE AGRICOLA SAVED SEARCHES?

NAL is in the process of evaluating the AGRICOLA saved searches stored in DIALOG for possible revision. In order to do this it would be helpful to know who is using the saved searches, the frequency of use, and the usefulness to the patrons. Currently there are 83 saved searches covering the subjects listed below:

I. Geographics--13 saved searches representing various regions of the world, e.g. Africa, South America, etc.

II. Soil Classes--7 saved searches on such topics as inceptisols, mollisols, etc.

III. Entomology and Insect Control--11 saved searches representing various types of insects and pests, e.g., ticks, rodents, etc.

IV. Crops, Plants, and Weeds--19 saved searches repre-

sented various forms of flora, e.g., aquatic weeds, herbs, fruits, etc.

V. Birds and Animals--9 saved searches representing various forms of fauna, e.g., birds, swine, cattle, etc.

VI. Nutrition and Health--7 saved searches, including vitamins, health risks, etc.

VII. Soils Reclamation and Management--8 saved searches including such topics as arid lands, aerial seeding, range management, etc.

VIII. Miscellaneous--9 saved searches on a variety of topics such as acid rain, alcohol fuels, and urban development.

The list of saved searches available on DIALOG may also be downloaded from ALF (Agricultural Library Forum), NAL's electronic bulletin board. To access the board, dial (301) 344-8510 using 8 data bits, 1 stop bit, no parity, at 1200 or 2400 baud. Enter name, etc. and register. Type "F" for the F)iles system, then "D" for D)ownload. The A)SCII text file with the search information is named SAVESRCH.TXT.

NAL plans to make available an official list of search save numbers which will be updated on a periodic basis. You can comment on the saved searches by contacting Jerry Rafats by mail, DIALMAIL or telephone:

National Agricultural Library
Reference Branch, Room 111
Attn: Jerry Rafats
10301 Baltimore Boulevard
Beltsville, MD 20705

Or call: (301) 344-3454; DIALMAIL: 16671

-- Jerry Rafats

EXPERT ADVISORY SYSTEMS LOADED ON ALF

"The Asphalt Forest" is the title of the newest expert advisory system available for downloading from ALF, the electronic bulletin board operated by NAL. Urban forestry is the subject of this microcomputer-based ready reference advisor, prepared by Mrs. Stephanie Chase and Dr. Edward Gilman of the University of Florida. Mrs. Chase is with the Marston Science Library, and Dr. Gilman is in the Ornamental Horticulture Dept.

Expert advisory systems mimic the advice-giving capabilities of human experts, in this case a reference librarian or professor knowledgeable about urban forestry information sources. Selecting choices from a series of menus, the user can locate books, reports, articles, or other sources that might provide background or answer factual questions on many aspects of urban forestry.

Mrs. Chase began work on the advisor as her assignment at a 1-week course on expert systems taught at NAL by Associate Director Sam Waters in September 1987. Others who attended and have provided ready reference advisors now available on the bulletin board include Ms. Susan Miller of Louisiana State University, who created an advisor on aquaculture topics of special interest in Louisiana, and Mr. Craig Robertson of the University of Vermont, whose field was organic chemistry. NAL staff have contributed expert

systems on aquaculture, and on food and nutrition, as well as a knowledge base on expert systems.

There is also a new expert advisory system on ALF to help users find saved search strategies for database searching. The searches are grouped into subject classes. The "Saved Search Expert Advisor" was developed by Beth Whiting and Dan Starr of NAL's Information Systems Division.

To download any of the advisory systems on ALF (Agricultural Library Forum), the electronic bulletin board, use communications software on your microcomputer to call (301) 344-8510. Then access the Files section and use the download command, with *Modem* or *X-Modem* as a file transfer protocol. Instructions on the use of archived (compressed) files are available in BULLET 4 in the M)ain system. The required shareware (Phil Katz's Archive Utility, PK36.EXE) may be downloaded from ALF as well. For further information, call Karl Schneider, ALF systems operator at (301) 344-2113.

The complete list of expert advisory systems available on ALF is as follows:

FILENAME / Title / Author

AQREFADV.ARC / AquaRef Expert Advisory System / Deborah Hanfman

LAQUADV.ARC / Louisiana Aquaculture Expert Advisory System / Susan Miller

FNICAID.ARC / Food & Nutrition Information Center Artificial Intelligence Demo / Holly Irving

OCHEMADV.ARC / Organic Chemicals Expert Advisor / Craig Robertson

KNOWLADV.ARC / Knowledge-Based Expert Advisor / Sam Waters

ASFOR.ARC / Asphalt Forest (Urban Forestry Advisor) / Stephanie Chase and Edward Gilman

SEARCHADV.ARC / Saved Search Expert Advisor / Elizabeth Whiting and Daniel Starr

--Samuel T. Waters & Karl Schneider

NAL & NLM MEET ON ACQUIRING & INDEXING BIOTECHNOLOGY MATERIAL

On December 1, 1988 key leaders at the National Agricultural Library and the National Library of Medicine (NLM), including Joseph H. Howard, Director, NAL, and Lois Ann Colaianne, Director, Library Operations, NLM, met to discuss areas of cooperation in the area of biotechnology. Dennis Benson, Chief, National Center for Biotechnology Information Branch of NLM, noted that the two institutions had already achieved a high degree of cooperation, and that the issues under consideration were part of a continuing effort to ensure that NAL and NLM worked together to provide up-to-date information about developments in biotechnology to the nation. The joint meeting focussed on collection development, acquisitions, and indexing policies and procedures at the two national libraries and resulted in recommendations of specific actions to improve the

coverage of biotechnology literature in the two organizations. NAL and NLM are to prepare a joint statement on collection development in biotechnology in their libraries. A list of core biotechnology serials with indications as to which are indexed selectively, cover-to-cover, or not at all will be created and maintained. NAL and NLM will review titles not currently acquired by either institution and will attempt to increase coverage of important biotechnology titles in the national libraries. In addition, measures will be taken to standardize terminology used in indexing biotechnology materials and both NAL's AGRICOLA database and NLM's MEDLINE will include information on gene sequencing in a common format, making more feasible the creation of a unique biotechnology database. Meeting participants agreed to schedule update sessions at regular intervals to report on the progress of these endeavors, and to keep each other informed of important activities under way at the National Agricultural Library's Biotechnology Information Center and the National Library of Medicine's National Center for Biotechnology Information Branch.

--Sarah Thomas

NAL'S COLLECTION POLICY UPDATED

The Library is pleased to announce the availability of its revised *Collection Development Policy of the National Agricultural Library*.

Since the last edition was published 11 years ago, there have been many incremental changes to the NAL policy which were noted internally for library staff but which were unavailable to anyone else. It has been estimated that there are more than 150 revisions which make the previous edition not only outdated but misleading as well. Some of the major changes include expanded coverage of human ecology and the collection of machine readable materials, audiovisual materials, and juvenile literature.

NAL is emphasizing the acquisition of information needed by the agricultural community regardless of its source, language, medium, or form. NAL's chief concern is making available information most needed by administrators, scientists, teachers, practitioners, students, and other members of the agricultural community.

Joseph H. Howard, Director of NAL, made these comments in the "Foreword:"

"It is with pleasure that I present the *Collection Development Policy of the National Agricultural Library* to all who are interested in the science of agriculture and the activities of the Library. Most research libraries have found collection policies essential to effective administration and it is no different at NAL. The policy has a pervasive influence on all major planning and decision-making processes throughout the institution.

"The Collection Development Policy is intended to guide selectors, recommending officers, and other NAL staff in developing a cohesive collection of information resources important to the advance of agricultural research and education. It also serves to inform NAL users, the agricultural community, and the public at large concerning the interests

and the pursuits of the Library."

Anyone interested in having copies of the policy should send a self-addressed mailing label with the request to:

National Agricultural Library, USDA
Collection Development, Room 204
10301 Baltimore Boulevard
Beltsville, Maryland 20705

For additional information call: (301) 344-1562.

--Leslie A. Kulp

AGRI/STATS I CD-ROM

NAL's Information Systems Division supplied corn production statistics from Africa which appear in a newly-released CD-ROM (Compact Disc-Read-Only-Memory) *Agri/Stats I*, produced by Hopkins Technology. The corn production statistics are part of an Economic Research Service spreadsheet file which forms part of a larger "Foreign Grains" database for Africa and the Middle East (72 countries). The Hopkins Technology disc provided the perfect opportunity to make this information readily available. The disc utilizes a proprietary retrieval software, "QuAcc, Quick Access" which extracts statistical data and can output either tables, Visicalc/DIF or Delimited ASCII files. Michael E. Kurtzig, of the Situation and Outlook group of the International Economics Division, Africa and Middle East Branch, ERS, is the section head responsible for the creation of the "Foreign Grains" database. Other databases on the CD-ROM were produced by the National Agricultural Statistics Service and include county estimates for crops and livestock, state and national annual crop, hog, and pig estimates, state and national cattle inventory, and a detailed "cattle on feed" database.

The disc is for sale by Hopkins Technology, 421 Hazel Lane, Hopkins MN 55343-7117, telephone (612) 931-9376, priced at \$65. A copy of the disc is located in the National Agricultural Library's New Technology Demonstration Center. Arrangements may be made to view the disc by calling Lee Decker, Special Services Branch, NAL, at (301) 344-3778.

--Pamela R. Mason



**Animal
Welfare**

SCAW BIBLIOGRAPHY COMPLETE

The Animal Welfare Information Center (AWIC) is pleased to announce the completion of a bibliography entitled *Laboratory Animal Welfare Bibliography*. This bibliography was produced by the Scientists Center for Animal

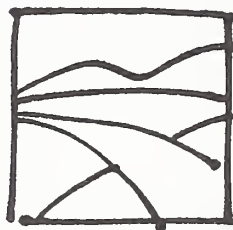
Welfare (SCAW) under a USDA/NAL grant (grant no. 59-32UF-7-114). Citations in the bibliography include both monographs and journal articles. Subject areas include animal use in research, testing and education, euthanasia, training, ethics and animal care. A brief description accompanies each citation.

To receive a copy of the *Laboratory Animal Welfare Bibliography* send a self-addressed mailing label with the request to:

Animal Welfare Information Center
National Agricultural Library, Room 301
Beltsville, Maryland 20705

For additional information call: (301) 344-3212.

--Karen Clingerman



**Rural
Information
Center**

RIC COMPLETES FIRST YEAR

"The USDA Rural Information Center [RIC] has come a long way in one short year," said Peter Myers, U.S. Deputy Secretary of Agriculture, speaking at RIC's first anniversary observance at the National Agricultural Library (NAL) on October 28. "RIC is now a national system available in all states through the Cooperative Extension System. This joint project of the Extension Service and the National Agricultural Library is providing information and referral services to clients working to regenerate rural America," he said.

Local government officials, businesses, community organizations and rural citizens can tap the resources of NAL, the world's foremost agricultural library, through Extension's national network. Myers noted that during its



photo: J. Swab

Roland Vautour, Under Secretary for Small Community and Rural Development, Patricia John, Coordinator of the Rural Information Center, and Peter C. Myers, Deputy Secretary of Agriculture, at the entrance to the new RIC quarters on the 3rd floor of NAL.

first year of operation 49 of the 50 states and four special status territories used the system. RIC staff responded to questions about economic revitalization, local government planning, funding sources and other community development and resource issues. Responses, often provided with 24-hour turn around, required NAL database searches, expert referrals, and dissemination of bibliographic and research information.

Myron Johnsrud, Extension Service Administrator, said in his remarks that RIC is particularly important to rural decision-makers isolated from major information support systems. He said that Extension is fully committed to making the county office structure the access point for RIC, but that RIC is a resource to be shared. He cited the Missouri Extension partnership with state, municipal and county organizations for RIC access and use as the type of sharing to be encouraged.

At the national level the goal is to make the system useful to all Federal departments. Johnsrud said talks are currently under way with the Environmental Protection Agency (EPA), Small Business Administration (SBA), and the Department of Housing and Urban Development (HUD).

Host for the anniversary celebration, Joseph H. Howard, NAL Director, recognized the successful partnership with Extension in creating RIC. The Library collects, stores, and retrieves information, and provides bibliographic access to it via both printed media and online databases, while Extension disseminates and interprets information. "Now, the two agencies have joined forces to provide a much needed service for rural officials," Howard commented.

RIC services are available to any public interest group, State or Federal agency requiring rural information and referral services. More information can be obtained from local county Extension offices. For information from a Federal Extension source, contact Bob Lovan at (202) 447-2805.

A publication is available showing the



photo: J. Swab
Peter C. Myers, Deputy Secretary of Agriculture, reviews the accomplishments of the Rural Information Center at its first anniversary observance.



photo: J. Swab
Myron D. Johnsrud, Administrator, Extension Service, discusses the importance of the Rural Information Center and the cooperation of NAL and ES to the economic welfare of the rural communities of the United States.



photo: J. Swab
Robyn Frank, Head, Information Centers Branch, hands Secretary Myers the first piece of birthday cake celebrating RIC's anniversary. With them are (L-R) Myron Johnsrud, La Verne Ausman, Joseph Howard, and Bob Lovan (on the left), and Roland Vautour and Patricia John.



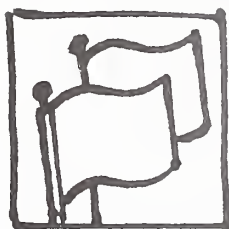
photo: J. Swab
Pat John (center), listens to a question during a tour of the Rural Information Center for participants in the anniversary observance.

current national concerns and interests of RIC users. For additional information contact:

*National Agricultural Library
Rural Information Center, Room 304
10301 Baltimore Boulevard
Beltsville, Maryland 20705
Or call (301) 344-2547.*



HIGHLIGHTS OF 1988 . . . not previously reported.



Visitors

Many visitors from the United States and foreign countries come to NAL to get an overview of the Library's systems and services, and to explore avenues of cooperation. Among recent visitors were those on these two pages. (Below L-R) Joseph Howard, NAL Director, meets with Conor Maguire, Consultant to the European Economic Community (EEC) from Technomic International, Torben Friis of I/S Datacentralen, Copenhagen, Denmark, and Tom C. Higgins, Consultant to the EEC from Technomic International. The group was here to do a study for the EEC, and also visited USDA's CRIS (Current Research Information System) which has its offices in the NAL Building.

Photo: D. Starr



photo: D. Starr

Frank E. Busby, of Winrock International, discusses NAL systems and cooperative projects with Joseph H. Howard, Director.



photo: D. Starr

A group from the USDA Office of Transportation visited for a tour of the library, demonstrations of NAL's databases and new technology, and review of services to USDA staff. (L-R) Lee H. Kelly, Special Assistant to the Administrator, Wesley R. Kriebel, Deputy Administrator, and Martin F. Fitzpatrick, Administrator, with NAL Director, Joseph H. Howard.

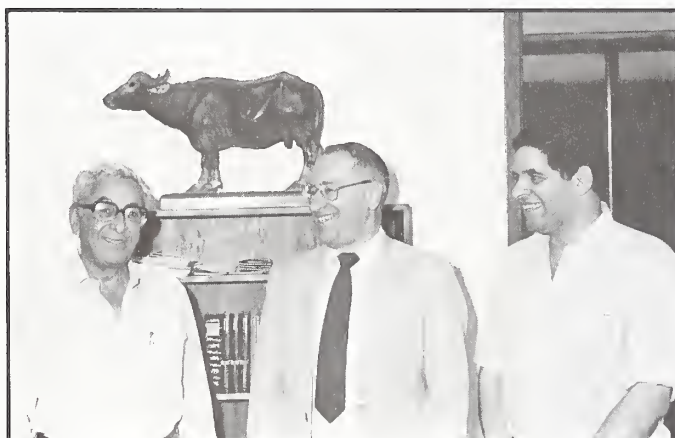


photo: D. Starr

(L-R) Dr. Bakir Oteifa of the Foreign Relations Department, Egyptian Ministry of Agriculture and Land Reclamation, Mr. Samuel Waters, Associate Director, NAL, and Dr. Oteifa's son Hussein. Dr. Oteifa was continuing the dialog on NAL/Egyptian cooperation. The curious will note that the sculpture of a water buffalo on the bookshelf was a gift to NAL from Timothy H. Blosser, retired Report Staff Leader, of USDA's Cooperative State Research Service.



photo: D. Starr

A group from the Forest Service of the State of Maryland attend a demonstration of NAL's U. S. Forest Service Photographs laser video disk.



photo: D. Starr

Judi Zidar of NAL's Information Systems Division (left) demonstrates the text-digitizing system to a group from North Carolina State University: (L-R seated) Ms. Kathy Brown, Ms. Susan Nutter, and Ms. Marta Lange; (standing) Mr. Ulmschneider, Ms. Margaret Hunt, and Mr. Walter High.



photo: J. Swab

A delegation from the Chinese Embassy led by Counselor and Mrs. Y. W. Chen (3rd and 4th from the left) toured the Library and viewed the "Agriculture in China" Exhibition. Verna Shen, Library Technician, Cataloging (2nd from left), led the tour.



photo: J. Swab

NAL Director Joseph H. Howard receives for NAL a collection of original cartoons and other artifacts as part of a series of gifts from the American Poultry Historical Society. With Mr. Howard (left) are (L-R) Mrs. Hogue, Mr. Robert L. Hogue, Dr. Richard D. Reynnells, and Mr. Raymond D. Schar.

Selected NAL PRESENTATIONS ... EXHIBITS ... DEMONSTRATIONS

NAL staff took the word about the Library and its new technology applications to conventions, symposia, and seminars around the Nation. Frequently they took along equipment and software for demonstrations, or staffed exhibit booths where literature was made available and additional demonstrations were provided. Some of these are reported below and on the next two pages.



photo: J. Swab

Deborah Hanfman chaired the Aquaculture Library Network Meeting at the annual meeting of the American Library Association (ALA) in New Orleans.



photo: D. Starr

Pamela Andre, chairperson of the Library and Information Technology Association of ALA, presided over its meeting at New Orleans.



photo: J. Swab

Patricia John, Coordinator of NAL's Rural Information Center (right), was one of the speakers on the program "Doing Rural Economic Development" at ALA. Others (L-R) are John Christenson, Traverse des Sioux Library System, Mankato, MN; Donna Leicht, Rural Library Services, Eau Claire, WI; Jack Glazier, University of Missouri, Columbia; James Pinkerton, Dept. of Rural Sociology, University of Missouri, Columbia; and Beth Honadle, Extension Service, USDA.



photo: J. Swab

Dan Starr, Information Systems Division, NAL, demonstrates the text-digitizing system to a group of ALA participants at New Orleans.



photo: J. Swab

At ALA Janet Wright and Veronica Lefebvre of NAL's Lending Branch led a session on NAL's Regional Document Delivery Service, copyright issues, and revision of request forms.



photo: J. Swab

Albert Joy and Nancy Eaton, of the University of Vermont review the progress of the text-digitizing project and demonstrate the system to the participants in the NAL/Land Grant Meeting at ALA. Ms. Eaton presided over this meeting as the President of the United States Agricultural Information Network (USAIN) and as project leader.



photo: D. Starr

Lee Decker, Special Services Branch (left), and Patricia Krug, Reference Branch, were among the 20 or so NAL staff members who took turns providing services and demonstrations at the NAL exhibit booth at ALA.



photo: J. Swab

Sarah Thomas, Chief, Technical Services, led a meeting with cooperating libraries on the State Agricultural Publications Project.

... DEMONSTRATIONS

The National Agricultural Library has participated in a number of programs sponsored by the Federal Library and Information Center Committee (FLICC) and others at the Library of Congress (LC). In September 1988, NAL staff took three laser videodisk systems to LC to provide demonstrations for over 200 persons attending FLICC's third annual Information Technology Update. The systems represent three NAL applications of the technology. Lee Decker, Head, Educational Programs Unit, Special Services Branch, coordinated the demonstrations.

(Top right) William Hauser of NAL's Special Collections (left) explains the Forest Service Photographs videodisk, which combines microcomputer and laser imaging technologies to provide word searchable access to both images and image data; NAL staff, Ron Young, Special Collections, and Lee Decker (2nd and 3rd from the left) discuss the demonstrations.

(Center right) Carole Shore of NAL's Information Systems Division (left) demonstrates the NAL laser videodisk containing full texts of agricultural and related publications and their associated graphics.

(Below right) Karl Schneider of NAL's Reference Branch (standing) watches as one participant tries AGRICOLearn, a self-instructional computer-based interactive videodisk (CBIV) training program to provide information and practice in searching the AGRICOLA database.

Photos courtesy of FLICC.

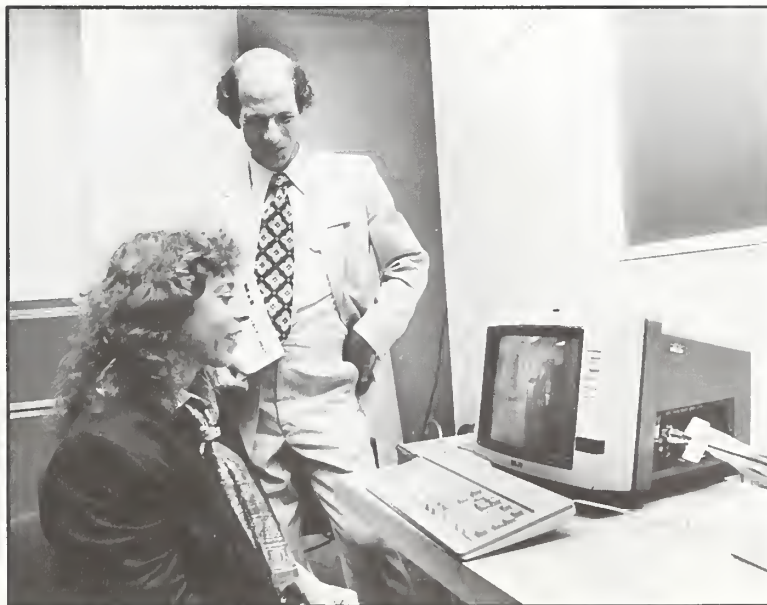
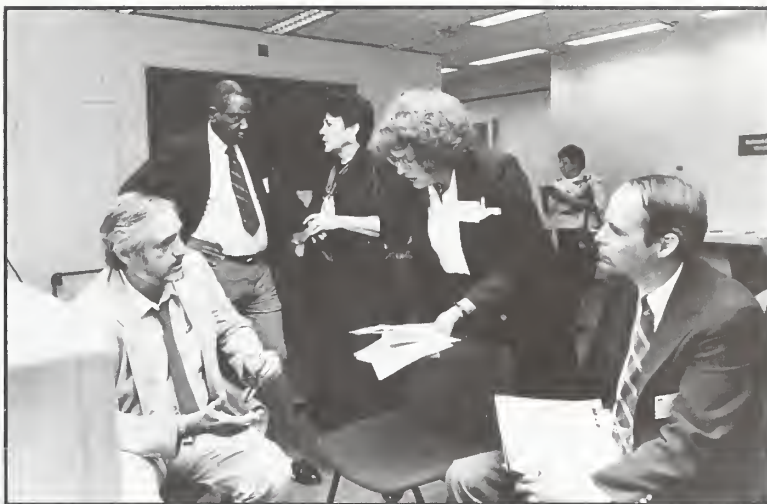
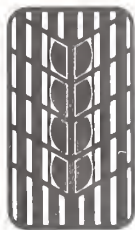


photo: J. Swab

Although ALIN does not usually report the many departures of staff to new positions elsewhere, it makes an exception in the case of Mary Ball who was in the Director's Office for most of her 20 years at NAL. She was a secretary in the earlier years and more recently a budget analyst. Ms. Ball has joined the staff of the International Programs Office of the Agricultural Research Service as Administrative Officer. Here Ms. Ball is seen on the day of her farewell party with Thomas Neis, Executive Officer of NAL.



**ASSOCIATES
NAL, INC.**

ANNUAL MEETING

SEPTEMBER 12, 1988

The Associates of the National Agricultural Library, Inc., held its Annual Meeting on September 12, 1988, at the Holiday Inn, Beltsville, Maryland. The officers, Leila Moran, President, Jayne MacLean, Vice President, Lida Allen, Treasurer, and Mary Silva, Secretary, were reelected.

The speaker was Dr. Calvin Sperling of the Germplasm Services Laboratory, Plant Sciences Institute, Agricultural Research Service. He spoke on the topic "Andean Crops and Their Potential for Other Areas of the World," and showed color slides of the plants and edible parts of many tuber, grain, fruit, and vegetable crops of the Andes, along with slides of the people cultivating and marketing them, and photos of artistic representations of the crops from prehistoric pottery, etc. Among the crops in his slide presentation, Dr. Sperling spoke on the tubers: arracacha, maca, mashua, oco, and ulluco, and briefly, the many varieties of potato; grains, such as the high protein grains or pseudo cereals, amaranth and quinoa; fruits, including cherimoya, passion fruits, pepino, the tree tomato, and the mountain or Andean papaya; and legumes, principally the Andean lupine or tarwi. Most of these were known and cultivated by the Incas, and many were suppressed by the Spanish when they conquered the Andean civilizations. Besides their attractiveness as potential foods, these crops contain genetic material for growth in various elevations, extremes in temperature and moisture conditions, resistance to diseases and pests, and other characteristics which make them attractive as potential crops in the United States and other parts of the world or as resources for improving existing crops.

Dr. Sperling has traveled throughout the Andes and Amazon exploring for and collecting crop plants and their wild relatives. He has also traveled through the Near East collecting wheat, other cereals, legumes, and their wild relatives.



DR. CALVIN SPERLING

photo: D. Starr



photo courtesy of Dr. Calvin Sperling

A Peruvian woman offers ulluco (*Ullucus*) tubers for sale or barter in a local market.



photo: D. Starr

At the Annual Meeting of the Associates of NAL, Foster Morrison, past President of the D.C. Chapter of Sigma Xi, the national honor society for scientists, presents Mike Yiallouris of NAL, Indexing, with an award for contributions to the indexing of scientific literature.

ANNUAL AWARDS

Each year the National Agricultural Library presents awards to employees and a few project participants who are not staff members. These awards range from cash bonuses or salary step increases to certificates of appreciation depending on the difficulty and duration of the performance meriting recognition. At the ceremony held on November 8, 1988, over 200 awards were presented, along with 16 awards for length of service. Some persons were recognized several times for participating in multiple projects. Not everyone receiving awards attended the photo session after the ceremony.



photo: J. Swab

Recipients of awards from the Information Systems Division.



photos: D. Starr

Dr. James Duke, Economic Botanist, Agricultural Research Service, was the speaker at the Awards Ceremony. His topics were botanical literature, herbs, and the lore related to them: "Trivial Pursuits?" Following his talk, Dr. Duke sang a couple of folk songs related to his subject, and accompanied himself on the guitar.



photo: D. Starr

Recipients of awards from the Technical Services Division.



photo: D. Starr

Recipients of awards from the Public Services Division.

NEW NAL EMPLOYEES IN 1988



photo: D. Starr

(L-R) Renae Brooks, Student; Sue Leatherman, Computer Programmer; Margo Kincaid, Computer Programmer; Susan Wilzer, Technical Information Specialist (TIS); Rose Broome, Computer Systems Analyst; and Regina Doorlay, Computer Systems Analyst; all are in Information Systems Division (ISD).



photo: D. Starr

(L-R) Jan Ostby, TIS, Food & Nutrition Information Center (FNIC); Bob Bray, TIS, Rural Information Center (RIC); Georgia Stevens, TIS, FNIC; Jane Gates, Librarian, Horticulture Information Center (HIC); Carol Kopolow, Librarian, Reference; Susan Agel, Secretary, Lending; and Marlow Martin, Student, Lending.



photo: D. Starr

(L-R standing) Jack Ale, Volunteer, Aquaculture Information Center (AIC); Katie Bielenberg, Student, HIC; Kevin Engler, TIS, Animal Welfare Information Center (AWIC); Suzanne Nanis, TIS, Biotechnology Information Center (BIC); Janice Swanson, TIS, AWIC; Doug Anderson, Intern with RIC, Clarion University, PA; and John Kane, TIS, RIC; and seated: Michele Foster, Student, AIC; and Karen Clingerman, Library Aid, AWIC.

During 1988 the chiefs of divisions and heads of branches introduced new employees at Library staff meetings. The photos in this sequence introduce them to *ALIN* readers, Library users, and staff. Some of these persons were temporary employees whose appointments have ended, and a few transferred from one unit to another within NAL.



photo: D. Starr

(L-R) Allen Rice, Library Technician, Acquisitions; Eleanor Mathews, Intern, Technical Services Division, and Librarian, Iowa State University; and Ann Palmes, Secretary, Acquisitions/Serials.



photo: D. Starr

(L-R) James Kirchner, Library Technician, Lending; Hong Rong Lin, Student, ISD; John Smith, Student, Collection Development; and Connie Rinaldo, Student, ISD.



photo: D. Starr

Sean Gleason and Roxanne Hope, Students, AWIC.



photo: J. Swab

(L-R) Wayne Olson, Librarian, Reference; Michele Lyles, Clerk Typist, Director's Office; Sandy Facinoli, Coordinator, Youth Development Information Center; Jonathan Jeffrey, Student, Cataloging; Martina Lydon, Volunteer, Special Collections and Cataloging; and Richard Joy, Student, Special Special Collections.



photo: J. Swab

(L-R) Trina Haynes, Student, Special Services; Sydne Loy, Student, Indexing; Tamara Freeman, Student, ISD; Chris Forney, Student, Indexing; and Jean Davis, Secretary, Special Services.



photo: D. Starr

Eva Wilcox, Student, Special Services.



photo: D. Starr

Ellen Pletsch, Librarian, Supervisor Fiscal and Order Unit, Acquisitions.



photo: D. Starr

(L-R) Kim Williams, Student, Serials; Kelly Walls, Student, ISD; Audrey Iverson, Volunteer, Indexing; and Hazel Thomas and Nancy Gmurek, Library Technicians, Indexing.

NEW NAL EMPLOYEES IN 1988, continued



photo: D. Starr
Idalia Acosta, Head of Cataloging (2nd from left), introduces students from her Branch, (L-R) Gina Garbarini, Pei-Ling Wang, Steve Levine, and Lara Dando.



photo: J. Swab
Stanislaw Kosecki, Library Technician, Acquisitions/Serials.



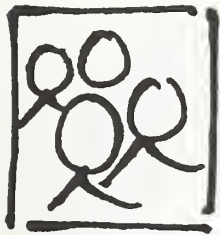
photo: J. Swab
(L-R) Ann Young, TIS, and Eileen McVey, Librarian, Aquaculture Information Center; Katherine Derr, Library Technician (LT), Lending; and Peggy Loreg, LT, Youth Development Information Center.



photo: J. Swab
(L-R) Norma Jensen, LT, Acquisitions; Sonja Nowack, Student, Collection Development; and Barbara McAllister, Clerk Typist, Lending.



photo: J. Swab
(L-R) Natalie Updegrove, TIS, FNIC; Kathie Beane, Librarian, D. C. Reference Center; and Lorene Lucas, LT, Lending.



Staff Update

RHODA S. RATNER INTERNS AT NAL



photo: J. Swab

RHODA RATNER

operations and issues, involvement in day-to-day operations, and work on special management projects. This internship is a prototype of other management internships NAL hopes to offer in the future."

In speaking of her primary project, Ms. Ratner said that she is doing a cost analysis study of NAL's Public Services Division. The study will cost out the processes of the Reference, Lending, Information Centers, and Special Services Branches of the Library. For example, it will try to determine labor and other costs of such activities as answering reference questions, loaning books, providing training, giving demonstrations, and doing research and development for computer applications to public services. Since such a study cannot possibly be completed in three months, Ms. Ratner will be developing a model for an in-depth study. She said, "The model will also be applicable to the Smithsonian Institution Libraries, and thus this internship will benefit both institutions."

At the Smithsonian, Ms. Ratner is the Chief Librarian of the National Museum of American History Branch Library here in Washington, D.C. She is also Unit Manager of the History and Art Unit, and in this capacity she supervises the branch libraries in the Museum of African Art, and the Office of Horticulture, also in D.C., and the Cooper-Hewitt

On December 5, 1988, Keith Russell, Chief of Public Services, announced that Rhoda Ratner had begun working with NAL four days a week as a management intern from the Smithsonian Institution Libraries. Russell said, "A joint arrangement between the Smithsonian and NAL enables her to be closely involved with NAL management staff over the next three months [till the end of February 1989].... Her internship will include orientations to NAL

Museum in New York City.

Ms. Ratner has been an active member of the American Association of Museums, and created the Libraries in Museums Group in the association. She organized and chaired four sessions of the group at annual meetings, and edited and published the proceedings of two of them. She has also published a few articles related to the National Museum of American History Branch Library.

Before taking on her present responsibilities 7 years ago, Ms. Ratner served for 3 years in the Smithsonian's Museum Reference Center, a branch library on all aspects of museums. She is a graduate of the University of Maryland, having earned both her B.A. and her M.L.S. there. She has lived most of her life in the D.C. area, and has three grown daughters.

JOANN SCHOONMAKER AT RUSSELL LIBRARY

Welcome JoAnn Schoonmaker who became the Librarian at the Russell Research Center, Agricultural Research Service, Athens, Georgia, on September 11, 1988. She joins the staff of one of the official field libraries of ARS. The Library at the Russell Research Center serves as a resource for the center and for the Southeast Region of ARS. Ms. Schoonmaker spent a week at NAL in October, receiving an orientation to NAL, its information products and services, and technology applications.

Ms. Schoonmaker earned her Bachelors in Business Administration in 1949, and her M.L.S. at the University of Georgia in 1972. From 1957-59 she served as a Lieutenant in the U.S. Navy, and from 1976-1985 as a librarian for the U.S. Army in a variety of places including Germany, Ft. Monroe at Hampton, Virginia, and Ft. Bliss at El Paso, Texas. Her husband, Herbert G. Schoonmaker, retired from the U.S. Navy, is presently doing research on the diplomatic history of the Dominican Republic at the University of Georgia.

Speaking of her goals for the Russell Research Center Library, Ms. Schoonmaker said, "I want to update the Library, especially in terms of computer access to information, and to automate the circulation records." NAL staff were delighted to welcome Ms. Schoonmaker as our newest colleague in the field libraries.



photo: J. Swab

JOANN SCHOONMAKER

MARTHA HOOD



photo: J. Swab

MARTHA HOOD

The author of "Using the CAB Thesaurus to Search AGRICOLA" in the last issue of *ALIN* [14 (11/12):15-16, Nov/Dec 88], Martha Hood has been a member of the NAL staff in Indexing Branch, Technical Services Division, since October 1984. Since June of 1985 she has been coordinator of NAL's activities with the two agricultural thesauri, the *CAB Thesaurus*, the controlled vocabulary of the indexes and databases of both NAL and CABI

[CAB International, formerly Commonwealth Agricultural Bureaux], and *AGROVOC*, the vocabulary of the AGRIS database and *AGRINDEX*, the published index of the Agricultural Research Information System of the Food and Agriculture Organization (FAO) of the United Nations. As coordinator, Ms. Hood is the authority on how NAL uses the terms in both vocabularies, and is responsible for proposed changes and additions to them, submitting the required forms to CABI and attending semiannual vocabulary update meetings at AGRIS in Rome.

In the Indexing Branch, Ms. Hood is also involved in the training of indexers, quality review of indexing, and documentation of indexing policies and procedures. In the last couple of years she has also spent much time on the design and testing of the indexing subsystem of ISIS, NAL's integrated library system, and is a member of the ISIS On-line Users Advisory Group, which is concerned with the issues and problems related to implementation of the ISIS system. She also serves as a volunteer NAL tour guide.

Ms. Hood is a graduate of the University of Maryland, having earned both her B.S. in Microbiology, and her M.L.S. there. Before coming to NAL, she worked in USDA's Agricultural Research Service for 19 years. While at ARS she co-authored ten research papers on taxonomy and morphology of parasitic nematodes, and compiled and edited the *Index-Catalogue of Medical and Veterinary Zoology* (PAR subfile of AGRICOLA).

KATHIE BEANE

The professional staff at the D.C. Reference Center now includes Kathie Beane as a reference librarian. Ms. Beane joined the staff on August 29, 1988. Her academic background includes a Bachelors in Education with a minor in

Library Science. She comes to NAL with a variety of library experience including 3 years in public services at the University of Wisconsin, Platteville, and 10 years in the U. S. Army Library System in Germany, where she was in technical services, acquisitions, public services, and reference. Having grown up on a farm in Highland, Wisconsin, she has retained an interest in agriculture.

Ms. Beane is also interested in travel, which she enjoyed during the 15 years she was in Germany, skiing, and reading. She resides in Falls Church, Virginia.



photo: J. Swab

KATHIE BEANE

JERRY RAFATS

The author of the article, "Do You Use AGRICOLA Saved Searches?" in this issue of *ALIN*, Jerry Rafats has been a reference librarian at NAL since 1974. Seven years in the middle of that service were at the branch library in D.C., while the early and current service have been in Beltsville. Mr. Rafats is also coordinator of the Critical Agricultural Materials Information Center. This Center is concerned with new crops or new uses for old crops, including forest products and especially crops from which "natural rubber" can be produced. The Center emphasizes Chinese tallow tree, crambe, guayule, jojoba, bladderpod, lunaria, meadowfoam, rapeseed, Stokes aster, and veronia.

Mr. Rafats is a graduate of the University of Wisconsin with a B.S. in Psychology, 1964, of the University of Pittsburgh with an M.A. in Linguistics, 1970, and of the University of Maryland with an M.L.S., 1973. Mr. Rafats came to NAL with a wide variety of experience in the library and



photo: D. Starr

JERRY RAFATS

education fields. His immediate prior position was with Informatics, Inc., in Rockville, MD, where he was head of the Noise library, an EPA funded clearing house on noise information, and was librarian for the GRAS project--Generally Regarded As Safe--which was collecting and reviewing literature from the past 50 years regarding chemical substances added to food. Among his education experiences were the teaching of English as a foreign language in Spain for a year and in Thailand for 2 years.

When asked about other work abroad, Mr. Rafats said, "I also worked in Germany as a heavy laborer--for Warner-Kasern, operated jointly by the Americans, French and British--loading and unloading food trucks, and" as an aside, "drinking beer." His travels have also taken him across the Soviet Union on the Trans-Siberian Railroad from Khabarovsk to Helsinki, Finland, with stops for several days in Moscow and Leningrad, and through Mexico and Canada.

Mr. Rafats resides with his wife Sue, their daughter Maliwan, 11, and their son, Thamom, 9, at Grantsville, MD. The children's names are Thai, meaning "wild-flower, jasmine" and "guardian, protector," respectively. Among his many interests, Mr. Rafats enjoys collecting and eating wild mushrooms and growing shiitake.

SHELDON CHENEY



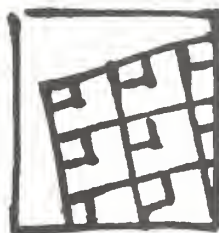
photo: J. Swab

SHELDON CHENEY

The author of "Grain Dust Explosions" in this issue of *ALIN*, Sheldon Cheney has been a reference librarian at NAL since 1978. Before 1985 he was at the NAL's D.C. Branch (now D.C. Reference Center), and since then in the Reference Branch in Beltsville. He is also coordinator for NAL's subject emphasis on grain dust, an approach similar to that of NAL's information centers, but on a smaller scale. In the latter capacity he is a member of

USDA's Grain Storage, Handling and Processing Safety Coordinating Committee, and has coordinated the collection and preparation of materials on grain dust and related areas for processing. The materials have been indexed in AGRICOLA and can be searched both online and on CD-ROM. A portion of the grain dust collection has been microfilmed in a cooperative project with the National Technical Information Service (NTIS) and is available for purchase from NTIS. As a corollary to his reference duties, Mr. Cheney has also been serving as the public services guru on searching AGRICOLA on the SilverPlatter CD-ROM.

Prior to his service with NAL, Mr. Cheney held positions with the U.S. Army Recreation Services Library in Schweinfurt, West Germany, the U.S. Naval Academy Library, the Johns Hopkins Applied Physics Laboratory Library, and the D.C. Public Library. He is a graduate of the University of Maryland, with a B.S. in History, and the M.L.S. He has traveled in much of western Europe, and Canada, and when asked about his outside interests, responded, "practically everything."



Agriculture Datebook

February 27-March 4: XIIth EUCARPIA Congress. Göttingen, West Germany. Contact: Sekretariat, Institut für Pflanzenbau und Pflanzenzüchtung, Georg-August-Universität, Von Siebold-Str. 8, D-3400 Göttingen, West Germany.

February 28: Institute for Alternative Agriculture Symposium. Washington, DC. Contact: (202) 786-3300.

March 1-2: National Feed Ingredients Association Mid-Year Meeting. Dallas/Fort Worth, TX; Hyatt Regency. Contact: NFIA, (515) 225-9611.

March 1-3: National Pork Producers Council Annual Meeting. Kansas City, MO. Contact: NPPC, (515) 223-2600.

March 2: 12th National Food Policy Conference. Washington, DC. Contact: (202) 447-7025.

March 5-8: American Alfalfa Processors Association 47th Annual Convention. San Diego, CA; San Diego Hilton Beach & Tennis Resort. Contact: AAPA, (913) 648-6800.

March 5-9: World Soybean Research Conference IV. Buenos Aires, Argentina. Contact: IV Conferencia Mundial de Investigacion en Soja. Secretaria: Edificio Bolsa de Cereales, Avenida Corrientes 127, 1043 Buenos Aires, Argentina. Tel.: 312-2000 y 311-9541.

March 6-9: Western Poultry Disease Conference. Tempe, AZ; Arizona State University. Contact: Richard Chalquest, Div. of Agriculture, Arizona State Univ., Tempe, AZ 85287.

March 9-11: The Genetics of Rare Plant Conservation: A Conference on Integrated Strategies for Conservation and Management. St. Louis, MO. Contact: Donald A. Falk, Executive Director, Center for Plant Conservation, 125 Arborway, Jamaica Plain, MA 02130. (617) 524-6988.

March 12-14: Food Research and Action Center (FRAC) Annual Conference. Arlington, VA; Holiday Inn Crowne Plaza. Theme: "Fighting Hunger in America: New Challenges for Our Leaders and Ourselves." Contact: FRAC, (202) 393-5060.

March 13-16: Stadler Genetics Symposium 1989--Gene Manipulation in Plant Improvement II. University of Missouri, Columbia, MO. Contact: J.P. Gustafson, 208 Curtis Hall, University of Missouri, Columbia, MO 65211.

(See Datebook, page 21, col. 1)



New Serials Received at NAL

AI Applications in Natural Resource Management. Moscow, Idaho, USA: AI Applications. Quarterly. Vol. 1, no. 1 (Summer 1987)-
QA76.76.E95A5

AIDS (Acquired Immune Deficiency Syndrome) bibliography for.... Troy, N.Y.: Whitston Pub. Co. 1988. Annual. 1981-86-
Z6664.A27A5

Alternative Methods in Toxicology. New York: Mary Ann Liebert, Inc. Vol. 1. [c1983]-
RA1199.A49

Annual Report / CSIRO Australia, Division of Soils. [Melbourne?]: The Division. Annual. 1987-
S599.7.A1C62

Annual Report / International Irrigation Management Institute. Digana Villabe, Sri Lanka: International Irrigation Management Institute. [1st] (1984-85)-
S616.D44I5

Benchmark Papers in Toxicology. Princeton, NJ: Princeton Scientific Publishers. Irregular. Vol. 1. (1983)-
RA1190.B4

Environmental Conference: [Proceedings]. Atlanta, GA: Technical Association of the Paper and Pulp Industry. Annual. 1980-
TD899.P3P36

Global Trade. [Philadelphia, PA]: North American Pub. Co. Monthly. [Vol. 108, no. 7] (July 1988)-
HF1.A54

The Herb, Spice and Medicinal Plant Digest. [Amherst, MA: Massachusetts Cooperative Extension Service. Quarterly, 1986-. Vol. 1, no. 1 (Winter 1983)-
SB351.H5H365

International Meat Market Review. Bletchley [England]: Meat and Livestock Commission. Issue no. 1 (May 1987)-
HD9410.1.G7

Klehm Nursery: [Catalog]. South Barrington, Ill.: The Nursery. Annual. [1986]-
SB115.Z9K5632 R

Lawn Servicing. [Overland Park, KS]: Intertec Pub. Corp. Ten nos/yr, 1988-; s-a, 1984-87. Vol. 1, no. 1 (Spring 1984)-
SB454.8.L38

Livestock Market Review. Revue du marché des bestiaux. [Ottawa] Market Information Service, Agriculture Canada. Annual. 31st (1950)-
280.39 C16A

MSU International Development Papers. East Lansing, MI: Dept. of Agricultural Economics, Michigan State University. Three numbers per year. No. 1 (1982)-
HD1401.M78

Papermakers Conference. Atlanta, GA: TAPPI Press. Annual. 1980-
TS1080.T3

Proceedings of the Viticultural Science Symposium. [Tallahassee, FL]: Florida A & M University\, Center for Viticultural Science and Small Farm Development, Division of Agricultural Sciences, College of Science and Technology. Annual. 4th (July 10-11, 1981)-
SB387.V572

Research, the Future in Agriculture. West Lafayette, IN: Office of Resident Instruction, Purdue University. Vol. 1, no. 1 (Winter 1986)-
S541.5.I6R4

Rybolov. Moskva: Agropromizdat. Bimonthly. 1985, 1 (ianv.-febr. 1985)-
SH401.R9

Standardization News: SN. [Philadelphia, PA: American Society for Testing and Materials]. Monthly. Vol. 13, no. 1 (Jan. 1985)-
TA404.5.A2

Technical Report. Raleigh, NC: Southern Forest Research Center, School of Forest Resources, North Carolina State University. No. 1 (1982)-
SD144.A15T44

Zoologische Verhandelingen. Leiden: E. J. Brill. No. 1 (27 Oct. 1948)-
410.9 L59Z



SURPLUS CHEMISTRY JOURNALS

1. Journal of Organic Chemistry, Vols. 30-35, 1965-70 (12 issues/yr), and Vols. 36-53, 1971-88 (26 issues/yr).

2. Analytical Chemistry, Vols. 35-60, 1963-88 (13-14 issues/yr including annual issue of reviews).

The journals are complete, unbound, and in good condition, and are available by contacting the office of:

Malcolm J. Thompson
Agricultural Research Service
Room 6, Bldg. 467
Beltsville, MD 20705
Or call (301) 344 2389 (Mrs. Cohen or Mr. Weinrich)



Publications Exchange

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Beltsville, MD 20705

Development in Aging. Vol. 2, 1987.

Pesticides. Vol. 19 (5-6, 11), 1985; Vol. 21 (9-10), 1987; Vol. 22 (2), 1988.

Publications of the Arbeitskreis für Wildbiologie und Jagdwissenschaft at the Justus Liebig-Universität at Giessen-Lahn. 1981 (7); 1982 (9-10).

Research Report (Vermont Agricultural Experiment Station). No. 47, 52-53 (years unknown).

Revista de Agroquímica y Tecnología de Alimentos. Vol. 20, (2-4), 1980, and later issues.

The Rice Journal. Vol. 89, (5), 1986.

Sci-tech News. Vol. 39 (3), 1985.

Science & Culture. Vol. 52 (3), 1986.

Southern Horseman. Vol. 16, (2), 1977; Vol. 17 (9), 1978; Vol. 18 (9-10), 1979; Vol. 24 (3), 1985; Vol. 25 (8), 1986.

Urban Waterfront Revitalization: the Role of Recreation and Heritage. Vol. 2, 1978.

SURPLUS PUBLICATIONS

The National Agricultural Library will make available the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special ar-

rangements with U.S. sources for shipment of material. Listed titles may be requested up to six months following announcement.

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Or call Ruth Finnblade, (301) 344-1207.

American Journal of Botany. Vol. 44-59, 1957-72.

American Fertilizer. Vol. 80-91, 1934-39.

Current Advances in Plant Science. Vol. 8-10, 1976-78.

Dairy Science Abstracts. Vol. 42, 1980.

Herbage Abstracts. Vol. 7-49, 1937-79.

HortScience. Vol. 8-10, 1973-75.

Farm Chemicals. Vol. 92-128, 1940-65.

Journal of the American Society for Horticultural Science. Vol. 98-100, 1973-75.

Journal of Organic Chemistry of the USSR. Vol. 16-21, 1980-85.

National Union Catalog. Book Indexes (microfiche only), 1984-87.

Phytopathology. Vol. 64-65, 1974-75.

Plant Disease. Vol. 71, 1987.

Plant Disease Reporter. Vol. 47-59, 1963-75.

Plant Physiology. Vol. 43-50, 1965-67.

Proceedings of the Society for Experimental Biology and Medicine. Vol. 155-179, 1977-85.

Proceedings on Agriculture and Life Sciences in China. Vol. 2-4, 1985-87.

SURPLUS PUBLICATIONS IN RUSSIAN

Anemia of Piglets. Moskva, 1983.

Discussions on the Economic Mechanism. Moskva, 1984.

Effective Use of Production Potential in Agriculture. Moskva, 1983.

Handbook for the Skilled Woman in Sawmill Production. Moskva, 1984.

(See Russian Surplus, page 21, col. 1)



New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all *QB's* include search strategies. Unless otherwise specified, citations are from AGRICOLA.

The other bibliographic series, including *Special Reference Briefs*, have been researched and produced to meet special needs of clientele of the Library and its Information Centers. Revisions or updates will be announced when produced. Only one copy of a requested title will be sent; however, requesters may make copies. To request a copy of a *Quick Bibliography*, *Special Reference Brief*, or other bibliographic work, circle the desired title(s) below and send your request with a self-addressed label to:

Reference Branch, Room 111
National Agricultural Library
Beltsville, MD 20705

QUICK BIBLIOGRAPHIES

Q.B.--89-14. Double Cropping and Interplanting, June 1986-August 1988. 313 citations; English only. Prepared by Jayne T. MacLean. January 1989. Updates 87-66.

Q.B.--89-15. Organic, Low-Input or Sustainable Agriculture, January 1985-September 1988. 233 citations; languages: none excluded. Prepared by Jayne T. MacLean. January 1989. Updates 88-38.

Q.B.--89-16. Rotational Grazing and Intensive Pasture Management, January 1970-August 1988. 217 citations; English only. Prepared by Jayne T. MacLean. January 1989.

Q.B.--89-17. Salmon Culture, January 1979-September 1988. 145 citations; English only. Prepared by Deborah T. Hanfman. January 1989. Updates 86-80.

Q.B.--89-18. Welfare of Experimental Animals, January 1979-September 1988. 331 citations; languages: none excluded. Prepared by Jean Larson and Karen Clingerman. January 1989. Updates 88-17.

Q.B.--89-19. Nuclear Magnetic Resonance Studies in Animal Science, January 1979-October 1988. 92 citations; languages: none excluded. Prepared by Suzanne Nanis. January 1989.

Q.B.--89-20. Biotechnology: Genetic Engineering for Crop Plant Improvement, October 1987-September 1988. 409 citations; English only. Prepared by Jean Larson and Suzanne Nanis. January 1989. Updates 85-09.

Q.B.--89-21. World Rice Trade, January 1979-September 1988. 160 citations; languages: none excluded. Prepared by Mary E. Lassanyi. January 1989.

Q.B.--89-22. Herb Gardening, January 1981-October 1988. 137 citations; English only. Prepared by Jayne T. MacLean. February 1989. Updates 87-09.

Q.B.--89-23. Animal Welfare Legislation and Regulation, January 1979-November 1988. 301 citations; languages: none excluded. Prepared by Janice C. Swanson. February 1989. Updates 88-40.

Q.B.--89-24. Transportation of Agricultural Goods, January 1979-November 1988. 158 citations; languages: none excluded. Prepared by Mary E. Lassanyi. February 1989.

Q.B.--89-25. Biotechnology: Bovine Somatotropin/Growth Hormone, January 1979-November 1988. 204 citations; languages: none excluded. Prepared by Jean Larson. February 1989. Updates 88-18.

Q.B.--89-26. Biotechnology: Growth Hormone in the Pig, January 1979-December 1988. 70 citations; languages: none excluded. Prepared by Jean Larson. February 1989.

Q.B.--89-27. Hydroponics-Nutrient Film Technique, January 1983-November 1988. 239 citations; English only. Prepared by Henry Gilbert. February 1989. Updates 89-27.

Q.B.--89-28. Landscape Design/Landscape Architecture, January 1970-November 1988. 305 citations; languages: none excluded. Prepared by Henry Gilbert. February 1989.

Q.B.--89-29. Llamas and South American Camelids, January 1970-October 1988. 153 citations; languages: none excluded. Prepared by Sheldon Cheney. February 1989.

SPECIAL REFERENCE BRIEF

S.R.B.--89-03. Directory of Export and Trade Assistance. Prepared by Mary E. Lassanyi. December 1988.

AGRI-TOPIC

"Cut Flowers: Production and Marketing." *Agri-Topic*. Prepared by Carol Koplow. Horticulture Information Center. January 1989.

OTHER PUBLICATIONS

Educational and Training Opportunities in Organic, Low Input or Sustainable Agriculture. Prepared by Alternative Farming Systems Information Center. December 1988.



(Russian Surplus, from page 19)

Helminths in Fresh-water Biocoenosis. Moskva, 1982.

The Influence of Extreme Environmental Conditions on Agricultural Plant Yield Structure. Leningrad, 1982.

Mulberry Trees. Milanowek, 1986.

Multilink Tractor Trailers. Tashkent, 1981.

Perfecting the Direction of Agricultural Production. Moskva, 1985.

Physiological-biochemical Peculiarities of Frost and Winter Hardiness of Grape Vines. Kishinev, 1979.

Protection of Forests Against Diseases and Pests. Moskva, 1980.

Rare Varieties of Moldavian Flora. Kishinev, 1982.

Stories About Forest Plants. Moskva, 1973.

Technology for the Industrial Production of Sugar Beets. Moskva, 1983.

Weather and Fertilizer Effectiveness. Leningrad, 1985.

(Datebook, from page 17)

March 19-22: NAWGA/American Meat Institute/FMI Meat Marketing Conference. Los Angeles, CA; Westin Century Plaza Hotel. Theme: "Meat: The Future." Contact: Lisa Carole Gray, NAWGA, (703) 532-9400.

March 19-23: Saudi Agriculture '89. Saudi Arabia; Riyadh Exhibition Centre. Contact: Kallman Associates, Five Maple Court, Ridgewood, NJ 07450-4431.

March 19-25: National Agriculture Week. Contact: Melissa Loomis, Agriculture Council of America, (202) 682-9200.

March 28-29: National Plant Genetic Resources Board Meeting. Washington, D.C. Contact: NPGRB Ex. Secy. Dr. Charles Murphy, USDA-ARS, B-005, Rm. 239, Beltsville, MD 20705. (301) 344-1560.

March 28-30: AgBIOTECH '89. Washington, DC. Contact: Judy Green, Conference Programmer, CMC, 200 Connecticut Avenue, Box 4990, Norwalk, CT 06856-4990. (203) 852-0500.

March 28-30: New England Poultry Health Conference. Portsmouth, NH; Sheraton Hotel. Contact: New England Poultry Assn., P.O. Box 725, Augusta, ME 04330.

March 29-31: Rural Data Needs: The Role of Public Universities Conference. Lexington, KY. Contact: Jerry Skees, (606) 257-7262.

March 30: Distillers Feed Conference. Fort Mitchell, KY. Contact: (202) 447-5691.

April 3-5: American Meat Institute/Restaurant Business Foodservice Marketing Conference. Chicago, IL; Hyatt Regency Hotel. Contact: AMI, P.O. Box 3556,

Washington, DC 20007. (703) 841-2400.

April 3-6: Fourth World Green Crop Drying Congress. Cambridge, England; Churchill College. Contact: Dri-Crops 89 Secretariat, Agroup Ltd., 25 Frant Rd., Tunbridge Wells, Kent, England TN2 5JT.

April 5-7: Sixth Wildland Shrub Symposium. Las Vegas, NV. Contact: Keith McNeil, Division of Continuing Education, University of Nevada, 4505 University Parkway, Las Vegas, NV 89154. (702) 739-3707.

April 5-8: Association of College and Research Libraries National Conference. Cincinnati, OH.

April 11-12: 1989 Conference on Commercial Biotechnology. "Biotechnology Planning Conference." Cambridge, MA; Hyatt Regency Hotel. Contact: Business Communications Company, Inc., 25 Van Zant Street, Norwalk, CT 06855. (203) 853-4266.

April 11-14: Pacific Egg and Poultry Association Convention. Fresno, CA.

April 16-18: Marketing and Business Planning Institute. Chicago, IL; Hyatt Regency O'Hare. Contact: National Feed Ingredients Assn., Suite 375, 1501 42nd St., W. Des Moines, IA 50265.

April 17-19: Alltech's Fifth Annual International Symposium on Biotechnology in the Feed Industry. Lexington, KY; Hyatt Regency. Contact: Alltech Inc., 3031 Catnip Hill Pike, Nicholasville, KY 40356.

April 17-24: FAO Commission on Plant Genetic Resources. Rome, Italy. Contact: Dr. Jose Alcazar, FAO, Via delle Terme di Caracalla, Rome, 00100 Italy.

April 18: 67th Annual Convention of the National Meat Canners Association. Ponte Vedra, FL. Contact: (202) 447-7025.

April 18-20: Agro-Gene Seminar. Honolulu, HI. Contact: John Mee, Biotechnomica International, P.O. Box 25896, Honolulu, HI 96825. (808) 395-6739.

April 21-23: Tri-State Meat Processors Conference. Minneapolis, MN; Sheraton Park Hotel. Contact: Don Anderson, (612) 698-7013.

April 25-28: National Integrated Pest Management (IPM) Symposium/Workshop. Las Vegas, NV; Riviera Hotel. Theme: Targeting Research for IPM Implementation. Contact: E. H. Glass, Department of Entomology, NY State Agricultural Experiment Station, Geneva, NY 14456 (315) 787-2337.

April 28-May 1: International Association of Fairs and Expositions (IAFE) 21st Annual Spring Conference. Alexandria, VA; Radisson Mark Plaza Hotel. Contact: (417) 862-5771.

May, First Week: International Workshop on Evaluation and Utilization of Genetic Resources in Wheat Improvement. Aleppo, Syria. Contact: Dr. J. P. Srivastava, ICARDA, P.O. Box 5466, Aleppo, Syria.

May 3-4: National Plant Germplasm Committee. Urbana, IL. Contact: Dr. Paul Fitzgerald, Plant Germplasm, Agronomy Dept., Rm. 202, Poultry Science Bldg., Purdue University, West Lafayette, IN 47907. (317) 494-6573.

May 6-10: 3rd International Cooperative Management Symposium. Lucerne, Switzerland. Contact: (202) 653-6976.

May 7-11: American Feed Industry Association Annual (See Datebook, page 23, col. 1)

LIST OF KEY NAL PERSONNEL AND SERVICES

NAL ORGANIZATION	Contact	Area Code 301	DIALCOM*
Director	Joseph Howard	344-4248	AGS3050
Associate Director	Samuel Waters	344-3780	AGS3051
Special Services & Communications	Joseph Swab	344-3778	AGS3931
Public Affairs Specialist	Elizabeth Goldberg, Acting	344-3875	AGS3920
Executive Officer	Thomas Neis	344-1570	AGS3074
Budget Officer	Paul Bennett	344-1570	
Collection Development	Leslie Kulp	344-1562	AGS3070
Information Systems Division	Pamela Andre	344-3813	AGS3056
Assistant to the Chief	Carl Cantrell	344-1041	
Database Administration Branch	Gary McCone	344-3813	AGS3086
Library Automation Branch	Bill Feidt	344-3813	AGS3077
ISIS Coordinator	Roberta Rand	344-3813	
Public Services Division	Keith Russell	344-3834	AGS3080
Assistant to the Chief	Maria Pisa	344-3834	AGS3365
Information Centers Branch	Robyn Frank	344-3719	AGS3067
Lending Branch	Carol Ditzler	344-3503	AGS3921
Reference Branch	Maria Pisa, Acting	344-3834	AGS3365
Special Services Branch	Elizabeth Goldberg	344-3875	AGS3920
DC Reference Center	Susan Whitmore	(202) 447-3434	AGS3092
Special Collections	Alan Fusonie	344-3876	AGS3075
Arboretum Library	Robert Anderson	344-3875	
Technical Services Division	Sarah Thomas	344-3834	AGS3061
Assistant to the Chief		344-3834	
Acquisitions & Serials Branch	Caroline Early	344-3806	AGS3932
Exchange and Gift	Susan Fugate	344-1210	AGS3366
Monographs and Fiscal	Ellen Pletsch	344-3999	
Serials and Binding	Win Gelenter	344-8573	
Cataloging Branch	Idalia Acosta	344-3728	AGS3071
Indexing Branch	Shirley Edwards	344-3829	AGS3935
SERVICES	Contact	Area Code 301	DIALCOM*
INFORMATION & Circulation Desk	NAL Staff	344-3755	
AGRICOLA Training Registration	Kate Baker	344-3778	
Current Awareness Literature Service	Anita Speight	344-3859	AGS3059
Educational Programs	Lee Decker	344-3778	
Exhibits Planning & Scheduling	Lee Decker	344-3778	
Interlibrary Borrowing	Julie Mangin	344-3715	AGS3908
Interlibrary Loan		344-3755	
NTIS - ILL Billing	Debbie Norsworthy	344-3503	
Loan Renewals	NAL Staff	344-3798	
OCLC Coordinator	Pamela Mason	344-3813	
Orientation & Tours	Lee Decker	344-3778	
Periodicals Reading Room	Patricia Krug	344-1204	
Reference Desk	Librarian on Duty	344-4479	AGS3099
Regional Document Delivery	Veronica Lefebvre	344-3503	AGS3082
Special Collections Reading Room	NAL Staff	344-3876	

SERVICES	Contact	Area Code 301	DIALCOM*
Stack Passes	NAL Staff	344-3755	
Technology & Software Demonstration Centers	Lee Decker	344-3778	
Translations Program	Michael Thompson	344-1639	AGS3081
SUBJECT INFORMATION CENTERS	Coordinator	Area Code 301	DIALCOM*
Agricultural Trade & Marketing	Mary Lassanyi	344-3704	AGS3053
Alternative Farming Systems	Jayne MacLean	344-3704	AGS3098
Animal Welfare	Jean Larson	344-3704	AGS3909
Aquaculture	Debbie Hanfman	344-3704	AGS3091
Biotechnology	Jean Larson	344-3704	AGS3909
Critical Agricultural Materials	Jerry Rafats	344-1204	AGS3903
Family	Kathleen Hayes	344-3719	AGS3087
Fiber	Kathleen Hayes	344-3719	AGS3087
Food and Nutrition	Jim Krebs-Smith	344-3719	AGS3902
Food Irradiation	Jim Krebs-Smith	344-3719	AGS3902
Horticulture	Jayne MacLean	344-3704	AGS3098
Rural Information	Patricia John	344-4372	AGS3069
Technology Transfer/Water Quality	Kathleen Hayes	344-3719	AGS3087
Youth Development	Sandy Facinoli	344-3719	AGS3925
SPECIAL PROJECTS	Coordinator	Area Code 301	DIALCOM*
Grain Dust	Sheldon Cheney	344-1204	AGS3910
Nursery & Seed Trade Catalogs	Henry Gilbert	344-3876	AGS3911
Text Digitizing	Judi Zidar	344-3853	AGS3085

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(Datebook, from page 21)

974-8830.

Convention. Kansas City, MO. Contact: AFIA, (703) 524-0810.

May 8-11: Beltsville Symposium XIV-The Rhizosphere and Plant Growth. Beltsville, MD. Contact: Dr. Donald L. Keister or Ms. M. Blackwell, Beltsville Symposium XIV, USDA-ARS, Bldg. 011, HH-19, BARC-West, Beltsville, MD 20705. Or contact: (202) 447-3656.

May 10-12: International Symposium on Feedstuff Quality. Kolding, Denmark; Hotel Scanticon. Contact: Bioteknisk Institut, Holbergsvej 10, 6000 Kolding, Denmark.

May 15-17: American Meat Institute Public Affairs Conference. Washington, DC; Loew's L'Enfant Plaza Hotel. Contact: AMI, (703) 841-2400.

May 15-17: NASDA Food & Agriculture Exposition. Boston, MA; Hynes Convention Center. Contact: NASDA, (202) 628-1566.

May 19-23: China Agri '89. Beijing, China; Beijing Agricultural Exhibition Hall. Contact: Asia Marketing Assts., P.O. Box 8074, Natick, MA 01760.

May 20-25: IFFA International Trade Fair for the Meat Industry. Messe, Frankfurt, West Germany. Contact: Philippe Hans, German Chamber of Commerce, Inc., (212)

May 21-24: 18th American Society for Information Science Mid-Year Meeting. San Diego, CA.

June, End of: Meeting on Asparagus, in cooperation with the ISHS. Italy. Contact: A. Falavigna, Exp. Institute for Vegetable Crops, Via Paullese 28, I-20075 Montanaso Lomb., Italy.

June 4-8: National Feed Ingredients Association Feed Ingredient Institute. Chicago, IL; Hyatt Regency Oak Brook. Contact: National Feed Ingredients Assn., Suite 375, 1501 42nd St., W. Des Moines, IA 50265.

June 5-7: National Feed Ingredients Association Nutrition Institute. Chicago, IL; Hyatt Regency Oak Brook. Contact: National Feed Ingredients Assn., Suite 375, 1501 42nd St., W. Des Moines, IA 50265.

June 10-15: Special Libraries Association. New York, NY.

June 18-20: National Pork Producers Council World Pork Expo. Springfield, IL. Contact: NPPC, (515) 223-2600.

June 21-24: International Exhibition for Pig and Poultry Production and Processing. Hanover, West Germany; Exhibition Grounds. Contact: Deutsche Landwirtschafts-Gesellschaft, Zimmerweg 16, 6000 Frankfurt am Main 1, West Germany.



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provides a channel of communication to technical information specialists, librarians, extension workers, researchers, and scientists on agricultural information activities.

Joseph N. Swab, Editor.

Idalia Acosta, New Serials Editor.

Ruth Finnblade, Publications Exchange Editor.

Daniel Starr, Photographer.

[(301)-344-3937]

(Left above) Recipients of awards from the Director's Office at the Annual Awards Ceremony, November 8, 1988. See page 11 for photo story.

(Left below). Recipients of awards from the Director's Office in a separate ceremony recognizing coordinators who made the 1988 Combined Federal Campaign (CFC) a success: NAL went over its goal! (L-R) Holly Irving, CFC Manager and coordinator for Information Systems Division; Laura Nauta, Cataloging; Diana Lemon, Director's Office; Marion Carroll, Information Centers Branch; Wayne Olson, Reference Branch; Mary Lou Behrens, Lending Branch; Alfred Straughan, Indexing Branch; and Ann Palmes, Acquisitions & Serials Branch. Missing from the photo is Jean Davis, Special Services Branch.